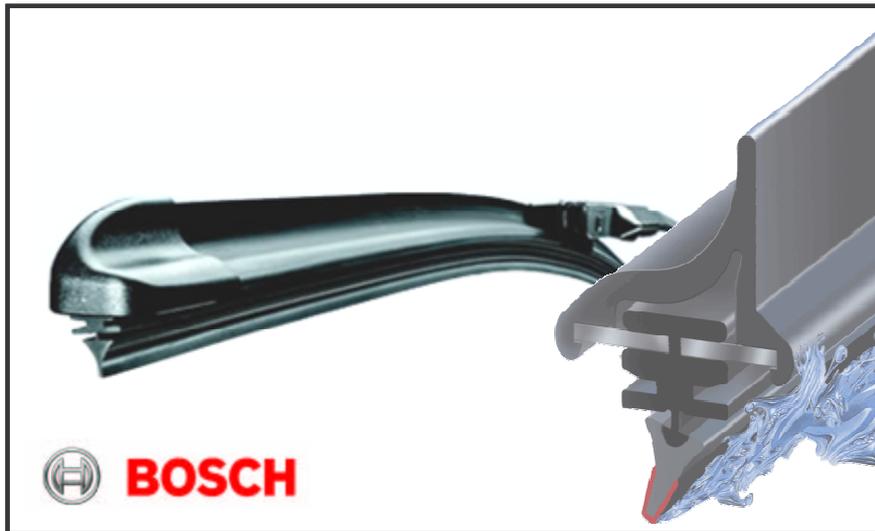


Praktikum / Diplomarbeit:

Company: Robert Bosch Produktie N.V., Tienen, Belgium

Department: EAB4, advanced development / calculation / simulation wiper blade

Description of the company: the name Robert Bosch stands world-wide for innovation and quality. With about 195.000 associates we are represented in more than 140 countries world-wide. In our location in Tienen/Belgium we develop and manufacture Bosch wiper systems. Tienen/Belgium is the biggest wiper production site world-wide (> 300.000 / day).

Subject of the internship: Wiper blade Flip-Over Noise

Duration: 6 months

Start Date: as soon as possible

Goal:

- Find the basic physical mechanisms and noise related most important parameters behind flip-over noise of a wiper blade
 - Dynamic 2D simulation in Abaqus of flip-over behaviour of a wiper profile in contact with a windscreen to determine contact forces and FFT analysis
 - Modal analysis of a windscreen
 - Application of contact forces on flexible screen and FFT analysis
 - Experimental activity (acceleration and noise measurements)
 - Correlation simulation to experimental results
 - Sensitivity study to identify critical noise-related parameters

Required skills:

- Last year Master degree mechanical engineering / physics
- Analytical skills / Good knowledge of FEM method. Basic knowledge of Abaqus preferred.
- Knowledge of NVH is an advantage.
- Ability to work independently and good communication skills
- Proficient English (written and spoken), German is a plus.
- Applicant having a EU-country nationality

Contact:

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